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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/782,198	02/08/2001	Mark Folsom	Quantic 724	9851
7	7590 12/27/2002			
Robert Moll @ PatentPlant 1173 St. Charles Court			EXAMINER	
			SUKMAN, GABRIEL S	
Los Altos, CA	94024		ART UNIT PAPER NUMBER 3641	
			DATE MAILED: 12/27/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati n N .	Applicant(s)				
Office Action Summary		09/782,198	FOLSOM ET AL.				
		Examiner	Art Unit				
		Gabriel S. Sukman	3641				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status 1)⊠	Responsive to communication(s) filed on 08 F	ehruary 2001					
2a)☐		is action is non-final.					
3)	,—		rosecution as to the merits is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) 1 and 2 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.						
	7) Claim(s) is/are objected to.						
•	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9)⊠ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents	s have been received in Applicat	ion No				
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)							
S. Palent and Trademark Office							



Application/Control Number: 09/782,198

Art Unit: 3641

DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: typographical error on page 12, second paragraph, "that in [] applies power to the..." (brackets added).

Appropriate correction is required.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 1 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,367,735 B1 to Folsom et al. Although the conflicting claims are not identical, they are not patentably distinct from each other because any two non-integral members inherently form a "gap" of some degree and the recitation of the limitation would have therefore been obvious to one having ordinary skill in the art.

Application/Control Number: 09/782,198

Art Unit: 3641

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 3,028,807 to Burton et al. (hereinafter referred to as Burton) in view of U.S. Patent No. 6,338,500 B1 to Perotto.

Burton discloses all of the limitations of claim 2 except for specifying the use of a semiconductor bridge and primer as the detonating mechanism. Burton discloses a mounting surface (made up of annular member, 36, cup shaped member, 38, and detonator, 28) that has a plurality of conductive paths (there are necessarily a plurality of wires leading to the detonator, 28, in order to complete the electric circuit; see col. 2, lines 60-63). Burton discloses a header assembly (portion of the body shown at 12) that supports a plurality of wires, which are in turn connected to an electrical path of the detonator (28). Burton also discloses a diverter body (thrust capsule, 18) that contains the mounting surface at the exit end, as seen in figure 5. Burton does not disclose the specifics of the detonator (28) and one having ordinary skill in the art would be inclined to seek out a suitable ignition device such as the detonator of Perotto. Perotto teaches a detonator that uses a semiconductor bridge and primer associated with the bridge in order to initiate the ignition of a main propellant, similarly to the device of Burton. It

Application/Control Number: 09/782,198

Art Unit: 3641

would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Burton by utilizing a semiconductor bridge and primer as the detonator indicated by ref. 28 in the disclosure of Burton as taught by Perotto to take advantage of the benefits of the pyrotechnic composition as disclosed in col. 2, lines 21-31 of Perotto which include being "highly effective in delivering a shot having a highly extended field of action.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- U.S. Patent No. 4,979,697 to Kranz
- U.S. Patent No. 5,433,399 to Becker et al.
- U.S. Patent No. 4,685,639 to Bains
- U.S. Patent No. 4,573,648 to Morenus et al.
- U.S. Patent No. 3,374,967 to Plumley
- U.S. Patent No. 3,360,214 to Stcherbatcheff
- U.S. Patent No. 3,018,981 to Weller
- U.S. Patent No. 2,958,282 to Czajkowski et al.
- U.S. Patent Application No. US 2002/0162476 A1 to Parker et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gabriel S. Sukman whose telephone number is (703)

Art Unit: 3641

308-8508. The examiner can normally be reached on M-F, 8:30-5:00, every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J Carone can be reached on (703) 306-4198. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-7687 for regular communications and (703) 305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-4180.

gss December 23, 2002 SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600